

## Product datasheet for SC313146

### IL6R (NM\_181359) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL6R (NM_181359) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL6R
Synonyms:	CD126; gp80; HIES5; IL-1Ra; IL-6R; IL-6R-1; IL-6RA; IL6Q; IL6QTL; IL6RA; IL6RQ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313146 representing NM_181359. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGGCCGTCGGCTGCGCGCTGCTGGCTGCCCTGCTGGCCGCGCCGGGAGCGGCGCTGGCCCCAAGG
CGCTGCCCTGCGCAGGAGGTGGCGAGAGGCGTGTGACCAGTCTGCCAGGAGACAGCGTGACTCTGACC
TGCCCGGGGGTAGAGCCGGAAGACAATGCCACTGTTCACTGGGTGCTCAGGAAGCCGGCTGCAGGCTCC
CACCCAGCAGATGGGCTGGCATGGGAAGGAGGCTGCTGCTGAGGTGCGTGCAGCTCCACGACTCTGGA
AACTATTCATGCTACCGGGCCGGCCAGCTGGGACTGTGCACTTGTGGTGGATGTTCCCCCGAG
GAGCCCCAGCTCTCCTGCTTCCGGAAGAGCCCCCTCAGCAATGTTGTTTGTGAGTGGGTCTCGGAGC
ACCCCATCCCTGACGACAAAGGCTGTGCTTGGTGAGGAAGTTTCAGAACAGTCCGGCCGGAAGACTTC
CAGGAGCCGTGCCAGTATCCCAGGAGTCCCAGAAGTTCTCCTGCCAGTTAGCAGTCCCGGAGGGAGAC
AGCTCTTTCTACATAGTGTCCATGTGCGTGCAGTAGTGTGGGAGCAAGTTTCAGCAAACTCAAACC
TTTCAGGGTTGTGGAATCTTGCAGCCTGATCCGCCTGCCAACATCACAGTCACTGCCGTGGCCAGAAAC
CCCCGCTGGCTCAGTGTACCTGGCAAGACCCCACTCCTGGAATCATCTTTCTACAGACTACGGTTT
GAGCTCAGATATCGGGCTGAACGGTCAAAGACATTCACAACATGGATGGTCAAGGACCTCCAGCATCAC
TGTTGTCATCCACGACGCTGGAGCGGCTGAGGCACGTGGTGCAGCTTCGTGCCAGGAGGATTCGGG
CAAGCGAGTGGAGCGAGTGGAGCCCGGAGGCCATGGGCACGCTTGGACAGAATCCAGGAGTCCCTCA
GCTGAGAACGAGGTGTCCACCCCATGCAGGCACTTACTACTAATAAAGACGATGATAATTTCTCTTC
AGAGATTCTGCAAATGCGACAAGCCTCCAGGTTCAAGAAGACGTGGAAGCTGCGGGCTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_181359



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<b>Insert Size:</b>	1098 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_181359.2</a>
<b>RefSeq Size:</b>	5834 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	3570
<b>UniProt ID:</b>	<a href="#">P08887</a>
<b>Cytogenetics:</b>	1q21.3
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway
<b>MW:</b>	40.2 kDa

**Gene Summary:**

This gene encodes a subunit of the interleukin 6 (IL6) receptor complex. Interleukin 6 is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in the immune response. The IL6 receptor is a protein complex consisting of this protein and interleukin 6 signal transducer (IL6ST/GP130/IL6-beta), a receptor subunit also shared by many other cytokines. Dysregulated production of IL6 and this receptor are implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. Alternatively spliced transcript variants encoding distinct isoforms have been identified in this gene. A pseudogene of this gene is found on chromosome 9. [provided by RefSeq, Aug 2020]

Transcript Variant: This variant (2) lacks an exon in the 3' coding region, which results in a frameshift, compared to variant 1. The resulting isoform (2) has a distinct C-terminus and is shorter than isoform 1.